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POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMEN

T. IDENTIFICATION

01 STATE 02 SITE NUMBER

1 40 980 899 300

	ART 1 - SITE INFORMA	and the same of th	•	
II. SITE NAME AND LOCATION				
SITE NAME Legal common or descriptive name of atej	0:10	02 STREET, ROUTE NO , OR SPE	CIFIC LOCATION IDENTIFIER	- / / -
Texas American	Dil CORP.	Wast Se	ct 1 1-67	5, R-1-E1
a aty		04 STATE 05 ZIP CODE   08 C	OUNTY	07 COUNTY 08 CONG CODE DIST
Turone Iwnst	<sup>1</sup>	12 62864 1	Franklix	7 0551 22
COOPONATES LATITUDE	VONGITUDE	,	. / ^	
- 38 <u>CA DI.</u>   08	79 <u>03 35</u>	Sesser	7.5 Quad	(254)
DIRECTIONS TO SITE (Starting from neares) public road)	<u> </u>			
5e	e Attack	hed Map		EPA Region 5 Records
RESPONSIBLE PARTIES		<del></del>		
OWNER (# known)		02 STREET (Buenoss, making, residen	44	353697
Lennoth Green	nwood	RR #2		I
CITY		04 STATE 05 ZIP CODE	OB TELEPHONE NUMBER	
ValieR		IL 1028911	· · UNK	1
OPERATOR III kisolem and different from owners		08 STREET (Bueness, melling, residen		
Texas Fimerican	Oil Corp.	1 BOX 74	7	ţ
oary		10 STATE 11 ZIP CODE	12 TELEPHONE MUMBER	
1914. Vernon		IL 62864	() UN	1
TYPE OF OWNERSHIP (Check one)		<u> </u>		
💢 A. PRIVATE 🗆 B. FEDERAL:	(Agency name)	C. STATE	DD.COUNTY DE. MU	NICIPAL
□ F OTHER:	(Specify)	G. UNKNOW	N	}
OWNER/OPERATOR NOTIFICATION ON FILE (Check of the	M ADDIY)			
☐ A. RCRA 3001 DATE RECEIVED: MONTH DAY	L B. UNCONTROLL	ED WASTE SITE (CERCLA 103 4)	DATE RECEIVED:	AY YEAR DE NONE
. CHARACTERIZATION OF POTENTIAL HAZ	ARD			
ON SITE INSPECTION	BY (Check of that apply)  B. EPA B. EPA	CONTRACTOR C.S	TATE O D OTHER	CONTRACTOR
TYES DATE	E. LOCAL HEALTH OFFI			CONTINUE
			(Specify)	
MONTH DAY YEAR				
	CONTRACTOR NAME(S):	ATION		
A**	CONTRACTOR NAME(S): 03 YEARS OF OPER	Unk		v
SITE STATUS (CHOCA OND)  A. ACTIVE B. INACTIVE XC. UNKNO DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. I  O'/y Waste (Toxic)  Heavy Metals (Solu	CONTRACTOR NAME(S):  03 YEARS OF OPER  DWN  KNOWN. OR ALLEGED  Lb/e/Toxic/Pe	EGRANIA ENGING YEM	X UNIKNOWI	V
SITE STATUS (CANCE ONE)  B. INACTIVE (C. UNIONO)  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT.  O'/y Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (	CONTRACTOR NAME(S):  OWN  ONN  KNOWN OR ALLEGED  Lb/e/Toxic/Pe  ENTANDIOR POPULATION  Population	ersistant)  Environment		•
SITE STATUS (CARCE ONA)  A ACTIVE B HACTIVE XC UNKNO  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT.  Oily Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (	CONTRACTOR NAME(S):  OWN  ONN  KNOWN OR ALLEGED  Lb/e/Toxic/Pe  ENTANDIOR POPULATION  Population	ersistant)  Environment		
SITE STATUS (CHECK OND)  A ACTIVE B. INACTIVE (C. UNKNO)  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. I  O'/y Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (  SUFFACE Water	CONTRACTOR NAME(S):  OWN  ONN  KNOWN OR ALLEGED  Lb/e/Toxic/Pe  ENTANDIOR POPULATION  Population	ersistant)  Environment		<b>\</b>
SITE STATUS (CHECK OND)  A ACTIVE B. INACTIVE (C. UNKNO)  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. I  O'/y Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (  SUFFACE Water  PRIORITY ASSESSMENT	CONTRACTOR NAME(S):  OWN  CONTRACTOR NAME(S):  ON VEARS OF OPER  OWN  CONTRACTOR NAME(S):  ON VEARS OF OPER  ON VEARS OF	Environment	)	V
SITE STATUS (CHOCA ONA)  A. ACTIVE B. INACTIVE (C. UNKNO)  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. I  O'/y Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (  SUFFACE Water  PRIORITY ASSESSMENT	CONTRACTOR NAME(S):  OWN  CONTRACTOR NAME(S):  ON VEARS OF OPER  OWN  CONTRACTOR NAME(S):  ON VEARS OF OPER  ON VEARS OF	EMPHY SOURCESTON OF MERCHAND PARTS OF THE PROPERTY OF THE PROP	)	
SITE STATUS (Check one)  A. ACTIVE B. HACTIVE (C. UNKNO)  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. I  O'/Y Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (  SUFFACE Water  PRIORITY ASSESSMENT  PRIORITY FOR INSPECTION IC vacce one I right or medium a c  A HIGH Inspection redured promotify XB. MEDIUM (Inspection redured promotify)	CONTRACTOR NAME(S):  03 YEARS OF OPER  OWN  KNOWN, OR ALLEGED  Lb/e/Toxic/Pe  ENT AND/OR POPULATION  Population  CDU/YO  Checked complete Plan 2: Weste infort	EMPHY SOURCESTON OF MERCHAND PARTS OF THE PROPERTY OF THE PROP	Conditions and incidents)	
SITE STATUS (Check one)  A. ACTIVE B. INACTIVE (C. UNKNO)  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. I  O'/Y Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (  SULFACE Water  PRIORITY ASSESSMENT  PRIORITY FOR HISPECTION IC SECTION & MIGHT or Medium a company (Independent of Medium (Independent o	CONTRACTOR NAME(S):  03 YEARS OF OPER  OWN  KNOWN, OR ALLEGED  Lb/e/Toxic/Pe  ENT AND/OR POPULATION  Population  CDU/YO  Checked complete Plan 2: Weste infort	EGRAND VEAR ENGING YEAR  Project And Description of Mazerdous (Ne Author according to the Control of Mazerdous (Ne Author according to	Conditions and incidents)	
SITE STATUS (Check one)  A. ACTIVE B. INACTIVE (C. UNKNO)  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. I  O'/Y Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (  SUFFACE Water  PRIORITY ASSESSMENT  PRIORITY FOR INSPECTION (Check one V right or medium a c  A HIGH  Impection redured promotify)  INFORMATION AVAILABLE FROM	CONTRACTOR NAME(S):  OWN  ON YEARS OF OPER  OWN  RNOWN. OR ALLEGED  Lb/e/Toxic/Pe  ENT AND/OR POPULATION  Population  COUNTY  Checked complete Per 2 - Waste Information  County  Coun	EGRAND VEAR ENGING YEAR  Project And Description of Mazerdous (Ne Author according to the Control of Mazerdous (Ne Author according to	Conditions and incidents)	Bion Forms)
SITE STATUS (Chack one)  A ACTIVE B INACTIVE (C UNKNO)  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. I  O'/y Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (  SUFFACE Water  PRIORITY ASSESSMENT  PRIORITY FOR INSPECTION (Chack sine Finger or modulum as a light)  A HIGH  XB. MEDIUM	CONTRACTOR NAME(S):  OWN  ON YEARS OF OPER  OWN  RNOWN. OR ALLEGED  Lb/e/Toxic/Pe  ENT AND/OR POPULATION  Population  COUNTY  Checked complete Per 2 - Waste Information  County  Coun	EGRAND VEAR ENGING YEAR  Project And Description of Mazerdous (Ne Author according to the Control of Mazerdous (Ne Author according to	Conditions and incidents)	Bion Forms)
SITE STATUS (Check one)  A. ACTIVE B. INACTIVE (C. UNKNO)  DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. I  O'/y Waste (Toxic)  Heavy Metals (Solu  DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONME  Ground Water (  SUFFALE Water  PRIORITY ASSESSMENT  PRIORITY FOR INSPECTION (Check one I high or modulum a c  A HIGH Interpretation reduired promptly)  INFORMATION AVAILABLE FROM  CONTACT	CONTRACTOR NAME(S):  OWN  ON YEARS OF OPER  ON ALLEGED  Lb/e/Toxic/Pe  ENT AND/OR POPULATION  Population  CDU/YO  Chacked complete Part 2: Wester Inform  CLOW  (Pagent on time	EGRAND YEAR ENONG YEAR  Project and the enough of the enou	a Conditions and Incidents)	O3 TELEPHONE NUMBER

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### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

ILO 980 899 39

* ***		10 044040755			······································		
	ATES, QUANTITIES, AN			<del></del>	<del></del>		
01 PHYSICAL ST	ATES Check of that apply:	02 WASTE QUANT	ITY AT SITE	03 WASTE CHARACTE	RISTICS Checken in iner-	at c.i.A	
SOLID B POWDER	E SLURRY	Pus de	n tenenden	SIXOT AX	<b>X</b> E SOLU		
0.01102		TONS		B CCRROS			
C SLUDGE		CUBIC YARDS	Unk	XD PERSIST		ABLE L NCOMP	ATIBLE
D OTHER	· Specifyi	NO OF DRUMS				M NOT AP	PLICABLE
HI. WASTE TY		<u> </u>		<u> </u>	· · · · · · · · · · · · · · · · · · ·		
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS	<del></del>	
SLU	SLUDGE						
OLW	OILY WASTE		Unk	Unk	Crude	0;1	
SOL	SOLVENTS						
PSD	PESTICIDES				·	<del></del>	
осс	OTHER ORGANIC CH	HEMICALS	Unk	Unk	Brice	Waste	**
IOC	INORGANIC CHEMIC	ALS	(				
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS		Unk	Unk	Brine	Waste	
IV. HAZARDO	SUBSTANCES SA	ppendia for most frequent			211.	70.21.5	
O1 CATEGORY	02 SUBSTANCE N	<del></del>	03 CAS NUMBER	04 STORAGE DISP	OSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
						40 001100111111111111111111111111111111	CONCENTRATION
			<del> </del>			<del> </del>	
	<del></del>	·	<del> </del>	ļ		<u> </u>	
				<b></b> _		<u> </u>	
				<u> </u>		<u> </u>	
				{		<u> </u>	
				1			
						1	
V. FEEDSTO	CKS See Appendix for CAS Number	e/s)	<del> </del>	<del></del>		<del></del>	l
CATEGORY	01 FEEDSTOC	K NAME	02 CAS NUMBER	CATEGORY	O1 FEEDS1	TOCK NAME	02 CAS NUMBER
FDS			<u> </u>	FDS	<del></del>		
FDS	<del></del>			FDS	<del></del>		
FDS			<del>                                     </del>	FDS			
FCS			<del>                                     </del>	FDS			
VI. SOURCES	OF INFORMATION ICHE	specific reterences a g	tiale lies sample analysis	reports ;	<del></del>	_ <del></del>	
	- <del></del>	<del></del>	·	-009	30		

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## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION

OI STATE 02 SITE NUMBER

I LO 980 \$ 99 30

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

II. HAZARDOUS CONDITIONS AND INCIDENTS			
C1 XA GROUNDWATER CONTAMINATION 3, 591.6	02 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X POTENTIAL	ALLEGED
Highly soluble Brine n	vaste placed for disp	osal in u	inlined
Highly soluble brine w lagoon. This practice has is	mpacted private wells	at similar	- facilities
	•	_	
31 SURFACE WATER CONTAMINATION UNK	02 TOBSERVED (DATE ) 04 NARRATIVE DESCRIPTION	POTENTIAL	. ALLEGED
Ground-Water disc	harde to Sury	face L	Daterl
Area subject of	o possible f	loodir	79
0) TO CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED	02 COBSERVED (DATE ) 04 NARRATIVE DESCRIPTION	. POTENTIAL	C. ALLEGED
C1 _ D FIRE EXPLOSIVE CONDITIONS  33 POPULATION POTENTIALLY AFFECTED	02 TOBSERVED (DATE )	L POTENTIAL	_ ALLEGEO
33 FOF OCATION FOR ENTINEE F AFF EO FEB	04 NAMES DESCRIPTION		
D1 TE DIRECT CONTACT D3 POPULATION POTENTIALLY AFFECTED	02 11 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	C POTENTIAL	ALLEGED
01 XF CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED UNK	02 G OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	•	. ALLEGED
Loss of production (Ag been noted at similar 3	land) + damage to se	oil structu	re has
Deen noted at 31m/lar 3			1
01 XG DRINKING WATER CONTAMINATION 2191	(See J following)	See 05 0+1	her tollowing
03 POPULATION POTENTIALLY AFFECTED 3591.6	04 NARRATIVE DESCRIPTION	POTENTIAL	ACCEDED
See A above			
Jee A avoic			
01 2 H WORKER EXPOSURE INJURY	02 C OBSERVED (DATE	□ POTENTIAL	.: ALLEGED
03 WORKERS POTENTIALLY AFFECTED.	04 NARRATIVE DESCRIPTION		
01 I I POPULATION EXPOSURE/INJURY	02 C. OBSERVED (DATE)	[] POTENTIAL	_ ALLEGED
03 POPULATION POTENTIALLY AFFECTED		- · · · · · -	
			]

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### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION	
O1 STATE O2 SITE NUMBER	29)
1 12 1980 1979	X

PART 3 - DESCRIPT	TON OF HAZARDOUS CONDITIONS AND I	NCIDENTS - 7	30 879 Sq
HAZARDOUS CONDITIONS AND INCIDENTS	·		
NARRATIVE DESCRIPTION	02 © OBSERVED (DATE	POTENTIAL	□ ALLEGED
	sterilization of soils () in has been noted at oth		suted to
(5e	e F Above) (See 05 oth	er following)	···
OT ☐ K. DAMAGE TO FAUNA MARRATIVE DESCRIPTION (Include numeral of species)	02 🗆 OBSERVED (DATE	POTENTIAL	□ ALLEGED
IT (3 L. CONTAMINATION OF FOOD CHAIN 14 NARRATIVE DESCRIPTION	02 DOBSERVED (DATE	) □ POTENTIAL	□ ALLEGED
11 i ; M. UNSTABLE CONTAINMENT OF WASTES	02 🗆 OBSERVED (DATE	) C POTENTIAL	□ ALLEGED
(Seek work standing report leading drums) 3 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
11 ( N. DAMAGE TO OFFSITE PROPERTY 4 NARRATIVE DESCRIPTION	02 L. OBSERVED (DATE	POTENTIAL	□ ALLEGED
1 _ O CONTAINMATION OF SEWERS, STORM DRA 4 NARRATIVE DESCRIPTION	INS. WWTPs 02 □ OBSERVED (DATE	) 🗇 POTENTIAL	C ALLEGED
DIATP ILLEGALIUNAUTHORIZED DUMPING DE NARRATIVE DESCRIPTION Site was infrequentle as now been backfille	oz = OBSERVED (DATE:	ory agencies, ag hard to des	- ALLEGED Facility tect.
bosoniption of any other known potential by anualing of 301/3 by crosion in several I	DAL OR ALLEGED HAZARDS		
II. TOTAL POPULATION POTENTIALLY AFFECT	TED: _ 3,591. 6		
V. COMMENTS  TEXAS AMERICAN CI  Address Unreport  M+ Vernon III  I. SOURCES OF INFORMATION ICENSINGER INFORMATION		formation of ERRIS (	
S.I.A. study			

#### EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevent to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy meatals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by <u>USEPA legal staff seems required</u>. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22

